

OPEN-FILE REPORT  
This report has not been edited for conformity with  
U.S. Geological Survey editorial standards or  
stratigraphic nomenclature.

EXPLANATION

INDEX NUMBER OF MEASURED SECTION SHOWN  
ON PLATE 3 OF CRO MAP—Coal section measured at  
point of triangle.

LINE OF COMPOSITE SECTION—Showing index  
number of section shown on plate 3 of CRO map.  
Composite section is based on nearby coal bed thickness  
measurements.

OIL AND GAS TEST HOLE—Showing index number of  
hole shown on plate 3 of CRO map and drill-hole data,  
in feet.

OIL AND GAS TEST HOLE—Showing drill-hole data, in  
feet.

OIL AND GAS TEST HOLE—Showing drill-hole data, in  
feet.

OIL AND GAS TEST HOLE—Showing drill-hole data, in  
feet.

COAL TEST HOLE—Showing index number of hole shown  
on plate 3 of CRO map, and drill-hole data, in feet.

GL—Ground elevation  
NR—No record  
R—Rock interval  
C—Coal interval  
TD—Total depth

DRILL-HOLE DATA SYMBOLS

An—Anderson  
D—Dietz  
L—Local  
Cy—Canyon  
Fe—Ferry  
Ck—Upper Cook  
Ck<sub>2</sub>—Lower Cook  
El—Elk  
Du—Dunning  
O—Odeh  
Ki—King  
Kn—Knobloch  
N—Nance  
F-G—Flowers-Goodale  
Br—Broadus  
Ct—Contact

COAL BED SYMBOLS AND NAMES

153 112  
Ck<sub>1</sub> Ck<sub>2</sub>

TRACE OF COAL BED OUTCROP—Dashed where  
approximately located; short dashed where inferred.  
Showing thickness of coal, in feet, measured at triangle.  
Where a thickness fraction is shown, it indicates the net  
coal thickness (upper number) and net partings  
thickness (lower number). Letters designate the name of  
the coal bed as listed above. Arrow points toward coal-  
bearing area. Trace of coal outcrop has been modified  
from Bryson and Bass (1973, pl. 1), Matson and Blumer  
(1973, pls. 19, 20, 23) and Warren (1959, pl. 19) to fit  
modern topographic map.

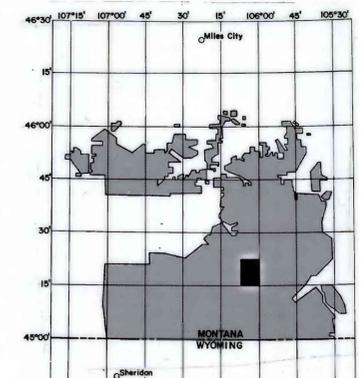
BURNED AND CLINKERED COAL BED—Showing  
area of baked and fused rock (v symbol). Dotted line  
indicates the inferred limit of burning.

COAL MINE—Showing thickness of coal bed, in feet.

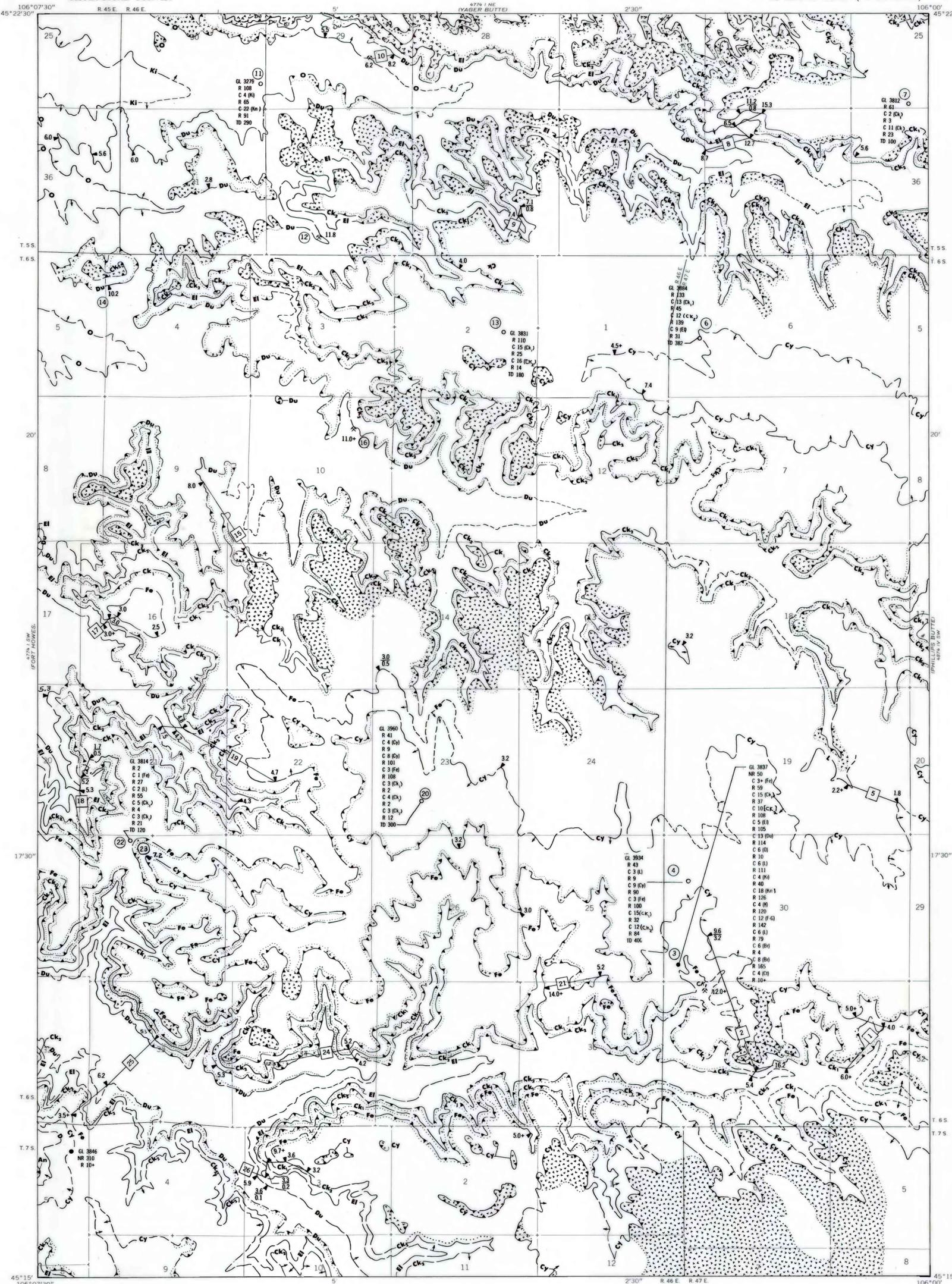
REFERENCES FOR NONINDEXED DATA POINTS  
BRYSON, R.P., and BASS, N.W., 1973, Geology of  
Moorhead coal field, Powder River, Big Horn, and  
Rosebud Counties, Montana. U.S. Geol. Survey Bull.  
1388, 116 p.

McKAY, E.J., written communication, 1977, Draft copy of  
CRO map of the Fort Howes quadrangle, Rosebud and  
Powder River Counties, Montana. U.S. Geol. Survey.  
Open-File Report 79-104

WARREN, W.C., 1959, Reconnaissance geology of the  
Birney-Broadus coal field, Rosebud and Powder River  
Counties, Montana. U.S. Geol. Survey Bull. 1072-J,  
p. 561-585.



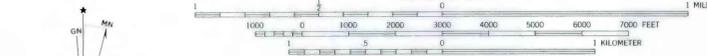
INDEX MAP—Showing location of the Goodspeed Butte  
quadrangle and the Northern Powder River Basin  
Known Recoverable Coal Resource Area (stippled),  
Montana.



Base map from U.S. Geological Survey, 1966

SCALE 1:24,000

Compiled in 1977



COAL RESOURCE OCCURRENCE MAP OF THE GOODSPEED BUTTE QUADRANGLE,  
POWDER RIVER COUNTY, MONTANA  
BY  
COLORADO SCHOOL OF MINES RESEARCH INSTITUTE  
1979